



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2ARNG-P31-8TW-A-POE 4000K NURSE ONLY\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from BALLABS TEST NO. 18940.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 25-AUG-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
 [LUMINAIRE] 2x2' MULTI COMPARTMENT LED TROFFER  
 [MORE] CLEAR ACRYLIC LENS  
 [LUMCAT] AMD2ARNG-P31-8TW-A-PoE 4000k NURSE ONLY  
 [ \_SEARCH\_SOURCETYPE]LED  
 [ \_SEARCH\_APPLICATION]INDOOR,DIRECT, MEDICAL  
 [ \_SEARCH\_MOUNTING]RECESSED

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	204
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	9
Total Luminaire Watts	22.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.02
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	0.02
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	174	422
55	0	398	806
65	0	789	623
75	0	226	23
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>0</b>	0	0	0	0	0	0	0	0	0
<b>5</b>	0	0	0	0	0	0	0	0	0
<b>10</b>	2	2	2	2	2	2	2	2	2
<b>15</b>	2	2	2	2	2	2	2	2	2
<b>20</b>	0	0	0	2	2	2	0	0	0
<b>25</b>	0	0	2	8	18	8	2	0	0
<b>30</b>	2	2	14	32	36	32	14	2	2
<b>35</b>	2	2	20	48	56	48	20	2	2
<b>40</b>	0	2	24	62	72	62	24	0	0
<b>45</b>	0	6	42	84	102	84	32	6	0
<b>50</b>	0	14	62	116	138	116	62	14	0
<b>55</b>	0	14	78	144	158	138	72	14	0
<b>60</b>	0	24	104	152	152	144	90	18	0
<b>65</b>	0	30	114	104	90	98	90	18	0
<b>70</b>	0	32	72	42	30	32	60	20	0
<b>75</b>	0	32	20	2	2	2	14	20	0
<b>80</b>	0	8	2	2	2	2	2	2	0
<b>85</b>	0	0	0	0	0	0	0	0	0
<b>90</b>	0	0	0	0	0	0	0	0	0

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : AMD2ARNG-P31-8TW-A-POE 4000K NURSE ONLY\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.54	N.A.	0.30
0-30	3.83	N.A.	1.90
0-40	19.20	N.A.	9.40
0-60	123.92	N.A.	60.60
0-80	203.73	N.A.	99.70
0-90	204.41	N.A.	100.00
10-90	204.34	N.A.	100.00
20-40	18.67	N.A.	9.10
20-50	54.78	N.A.	26.80
40-70	168.36	N.A.	82.40
60-80	79.81	N.A.	39.00
70-80	16.16	N.A.	7.90
80-90	0.68	N.A.	0.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	204.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.07
10-20	0.46
20-30	3.30
30-40	15.37
40-50	36.11
50-60	68.60
60-70	63.65
70-80	16.16
80-90	0.68
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	225	225	225	225	220	220	220	220	210	210	210	201	201	201	193	193	193	189
1	201	190	180	171	196	186	177	168	177	170	163	170	164	158	163	158	153	149
2	176	156	140	126	171	152	137	124	145	132	121	139	128	118	133	124	116	111
3	154	129	109	93	149	125	107	92	119	103	90	114	100	88	108	97	87	82
4	136	107	86	70	131	104	84	69	99	82	68	94	79	67	90	76	66	61
5	121	90	69	53	116	88	68	53	83	65	52	79	63	51	75	61	50	45
6	109	77	56	41	104	75	55	41	71	53	40	68	52	39	64	50	39	34
7	98	67	46	32	94	65	46	32	62	44	32	59	43	31	56	42	31	26
8	90	59	39	26	86	57	38	26	54	37	25	52	36	25	49	35	25	20
9	82	52	33	21	79	51	33	21	48	32	21	46	31	20	44	30	20	16
10	76	47	29	17	73	46	29	17	43	28	17	41	27	17	40	26	17	13

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## UGR TABLE - CORRECTED

### Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

### Room Size UGR Viewed Crosswise

X=2H	Y=2H	0.0	0.4	0.0	0.7	1.1	UGR Viewed Endwise			
	3H	2.0	3.9	2.4	4.2	4.5	13.8	15.9	14.2	16.5
	4H	3.2	4.9	3.6	5.3	5.6	14.5	16.3	14.8	17.0
	6H	3.4	5.1	3.8	5.4	5.8	14.5	16.2	14.8	16.6
	8H	3.4	5.0	3.8	5.4	5.8	14.4	16.1	14.8	16.4
	12H	3.4	4.9	3.8	5.3	5.7	14.4	16.0	14.8	16.4

4H	2H	9.5	11.2	9.9	11.6	11.9	14.4	16.2	14.8	16.5	16.9
	3H	10.6	12.1	11.0	12.5	12.9	15.2	16.7	15.6	17.1	17.5
	4H	11.2	12.6	11.7	13.0	13.4	15.2	16.5	15.6	16.9	17.4
	6H	11.4	12.6	11.8	13.0	13.4	15.1	16.3	15.6	16.8	17.2
	8H	11.4	12.5	11.8	12.9	13.4	15.2	16.3	15.6	16.7	17.2
	12H	11.4	12.4	11.9	12.9	13.3	15.2	16.2	15.6	16.6	17.1

8H	4H	11.6	12.7	12.0	13.1	13.6	15.2	16.3	15.7	16.8	17.2
	6H	11.8	12.7	12.3	13.2	13.6	15.2	16.1	15.7	16.6	17.1
	8H	11.8	12.6	12.3	13.1	13.6	15.2	16.0	15.7	16.5	17.0
	12H	11.8	12.5	12.3	13.0	13.6	15.3	15.9	15.8	16.4	17.0

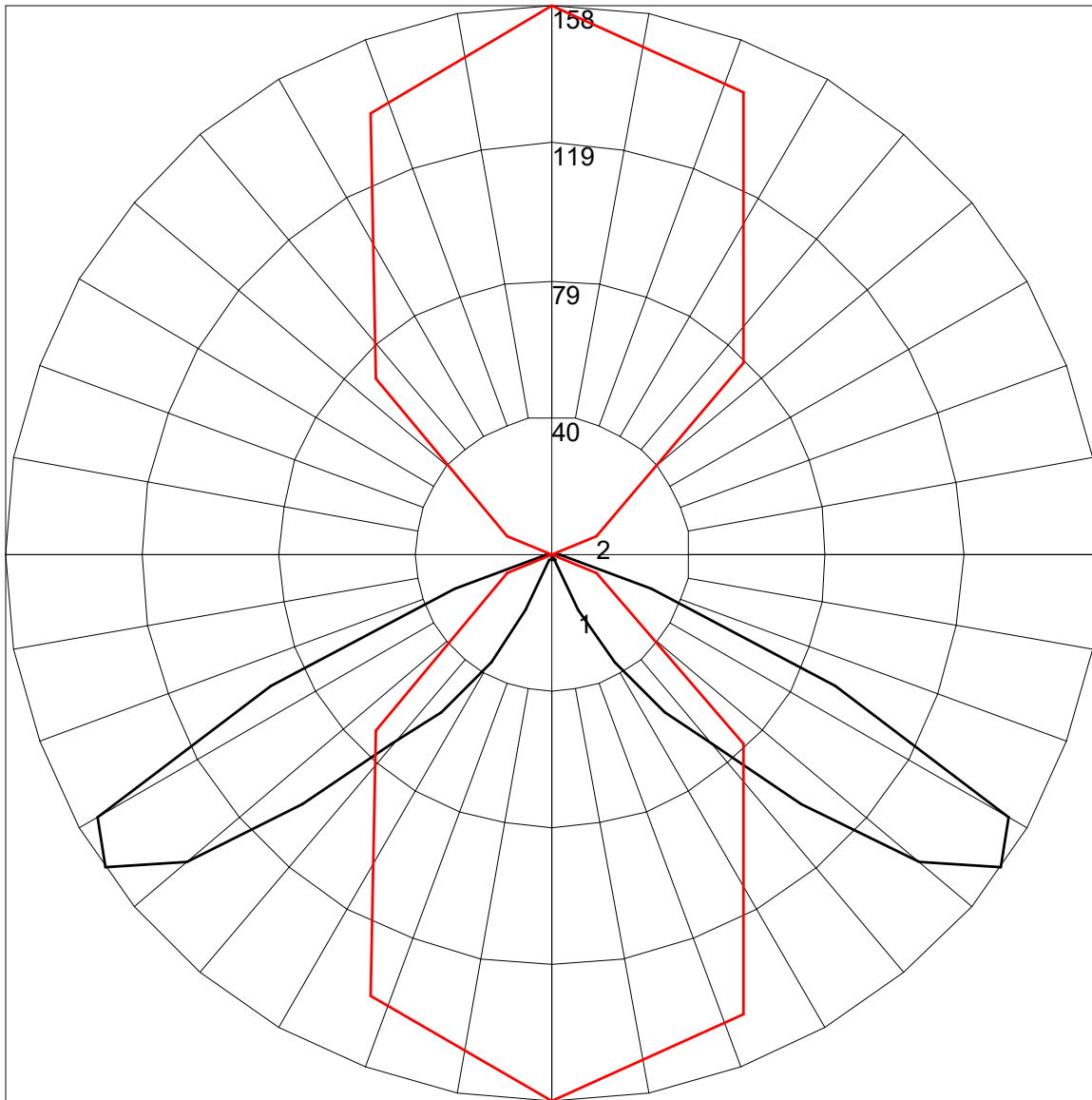
12H	4H	11.6	12.6	12.1	13.1	13.5	15.2	16.2	15.7	16.7	17.2
	6H	11.8	12.6	12.3	13.1	13.6	15.2	16.1	15.8	16.5	17.0
	8H	11.8	12.5	12.3	13.0	13.6	15.3	15.9	15.8	16.4	17.0

Maximum UGR = 17.5

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## POLAR GRAPH



Maximum Candela = 158 Located At Horizontal Angle = 90, Vertical Angle = 55

# 1 - Vertical Plane Through Horizontal Angles (90 - 270)

# 2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)